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(54) Crystalline resin compositions having a special effect surface appearance

(57) A crystalline resin molded article with a non-uniform appearance, or a process for making such an article, comprising a molded blend of a granular crystalline resin base resin and a granular crystalline resin colored concentrate which has contrasting color properties. The granular color concentrate comprising a crystalline resin carrier resin having a melting tempera-

ture sufficiently higher than the base resin for non-uniformly dispersing the granular color concentrate into the base resin during molding to produce a non-uniform appearance in said molded article.

For instance a polyethylene naphthalate based color concentrate is used for pigmenting polyalkylene terephthalate based resin compositions to give a marble like surface appearance.

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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; retrieved from STN Database accession no. 126:213015/DN, HCAPLUS XP002158566	1-3,5,10	C08J3/22 C08L67/02 C08L101/00
Y	* abstract * -& JP 09 031207 A (ASAHI CHEMICAL IND.) 4 February 1997 (1997-02-04) ---	7-9	
Y	EP 0 676 442 A (GEN ELECTRIC) 11 October 1995 (1995-10-11) * abstract * * page 8, line 54 - page 10, line 39 * ---	7-9	
X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; retrieved from STN Database accession no. 125:249555/DN, HCAPLUS XP002158567	1-3,5,10	
Y	* abstract * -& JP 08 208919 A (ASAHI CHEMICAL IND.) 13 August 1996 (1996-08-13) ---	6	TECHNICAL FIELDS SEARCHED (Int.Cl.6) C08J C08L
Y	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; retrieved from STN Database accession no. 81:121906/DN, HCAPLUS XP002158568 * abstract * -& JP 49 039653 A (TEIJIN CHEMICALS) 13 April 1974 (1974-04-13) --- -/--	6	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 26 January 2001	Examiner Krische, D
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		T: theory or principle underlying the invention F: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document	

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Application Number
EP 99 30 0221

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Y	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 07. 31 July 1996 (1996-07-31) & JP 08 081828 A (UNITIKA LTD), 26 March 1996 (1996-03-26) * abstract *	1-5,10	
D,Y	US 5 387 381 A (SALOON, THOMAS J.) 7 February 1995 (1995-02-07) * abstract; claim 1 * * column 1, line 34 - column 2, line 24 * * column 4, line 1 - line 29 *	1-5,10	
A	DE 196 01 642 A (BASF AG) 24 July 1997 (1997-07-24) * claims 1,2,6: example * * page 2, line 1 - line 59 * * page 12, line 6 - line 33 *	1-4,10	
A	WO 97 37825 A (DU PONT) 16 October 1997 (1997-10-16) * abstract * * page 2, line 29 - page 3, line 17 *	1-3,5,10	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A	DATABASE WPI Section Ch, Week 197650 Derwent Publications Ltd., London, GB; Class A18, AN 1976-93235X XP002158569 -& JP 51 123247 A (MURAKAMI H), 27 October 1976 (1976-10-27) * abstract *	1,10	
A	US 3 856 884 A (SAKAI, K. ET AL) 24 December 1974 (1974-12-24) * claim 1 *	6	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 26 January 2001	Examiner Krische, D
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons A : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1533/93-62 (P4/C1)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 30 0221

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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26-01-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 9031207 A	04-02-1997	NONE	
EP 0676442 A	11-10-1995	US 5510398 A	23-04-1996
		JP 8041305 A	13-02-1996
		SG 30332 A	01-06-1996
JP 8208919 A	13-08-1996	NONE	
JP 49039653 A	13-04-1974	NONE	
JP 08081828 A	26-03-1996	NONE	
US 5387381 A	07-02-1995	CA 2031780 A,C	08-06-1991
DE 19601642 A	24-07-1997	WO 9726298 A	24-07-1997
WO 9737825 A	16-10-1997	BR 9708505 A	03-08-1999
		EP 0892708 A	27-01-1999
		JP 2000508257 T	04-07-2000
		US 5788890 A	04-08-1998
JP 51123247 A	27-10-1976	NONE	
US 3856884 A	24-12-1974	DE 2341159 A	20-03-1975
		FR 2241575 A	21-03-1975
		GB 1417805 A	17-12-1975
		NL 7311635 A	25-02-1975

For more details about this annex : see Official Journal of the European Patent Office, No. 12/02